



Dart Hawkesbury
1270 Aberdeen St
Tel (613) 632-5200
Fax 613 632-5246

Plex 11/7/2018 11:04 AM Dart.Belanger.Natasha



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO041287**

Supplier: SAB002-VC
Polymershapes Distribution Canada Inc.
1665 55th Avenue
Dorval
QC
H9P 2W3 Canada
Phone: 514 422 1048
Fax: 514 422 1055

PO No: PO041287

PO Date: 10/10/18

Due Date: 11/26/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
OCT 10 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

| Line Item | Job | Part | Supplier Part No | Description | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|--------------|-----|-------------|---------------------|--|--------|---------|-------------|-------------------|----------------------|---------|---------------------|-------------------|
| 1 | | MUHMWB1.250 | | UHMWB 1.250 BLACK : MATERIAL: UHMW BLACK TIVAR 1000 VIRGIN MATERIAL MANUFACTURER: POLY HI SOLDUR/QUADRANT PLASTICS THICKNESS- TOLERANCE: +0.030"/NO MINUS receive sf | Firmed | - | 11/26/18 | 80 sf | 0 sf | 80 sf | \$40.00/sf | \$3,200.00 |

805 sf NOV 07 2018

Grand Total: \$3,200.00

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/10/18 7:37 AM dart.lavoie.chantal

Chantal Lavoie

From: Olga Kuchyna <okuchyna@polymershapes.com>
Sent: Thursday, October 04, 2018 2:50 PM
To: Chantal Lavoie
Subject: RE: quote

Hi Chantal,

Tivar 1000 Black Sheet planed 2 Sides +.020/-0

2 sheets 1.250 x 48" x 120" @ \$1600.00/sheet

Lead time: 4 – 6 weeks ARO

Thank you,
Olga Kuchyna
Représentante Ventes Internes / Service à la Clientèle

Polymershapes Distribution Canada Inc.
1665 55ième Avenue
Dorval, QC, H9P 2W3

T: 514-422-1048
F: 514-422-1055
E: okuchyna@polymershapes.com
W: www.polymershapes.com **NOUVEAU!!!!**

Polymershapes Montréal est certifié AS9120B:2016, EN9120B:2016, JISQ9120:2016 et ISO9001:2015.



À moins qu'il en soit convenu autrement dans un document signé par les deux parties, toute vente par Polymershapes (« Polymershapes ») est effectuée exclusivement aux termes et conditions de vente standard de Polymershapes, qui peuvent être obtenues sur demande et en ligne à l'adresse www.polymershapes.com. POLYMERSHAPES NE DONNE AUCUNE GARANTIE, EXPRESSE OU IMPLICITE QUANT AUX RÉSULTATS, À L'EFFICACITÉ OU À LA SÉCURITÉ DE L'UTILISATION DE SES PRODUITS POUR TOUTE APPLICATION PAR SES CLIENTS. Aucune disposition du présent document ou de tout autre document, ni aucune recommandation ou aucun conseil verbal, ne sera réputé modifier, faire varier, remplacer ou annuler toute disposition des Conditions Standards de Vente ou de la présente exclusion de responsabilité. Aucun énoncé figurant aux présentes relativement à l'utilisation éventuelle ou suggérée de tout matériau, produit, service ou conception n'a pour but d'accorder, ni ne doit être interprété comme accordant, une licence sur les droits de brevet ou d'autres droits de propriété intellectuelle de Polymershapes ou de l'une de ses filiales ou d'un membre de son groupe couvrant cette utilisation ou cette conception, et ne doit pas être interprété comme une recommandation relative à l'utilisation de ce matériau, produit, service ou conception en violation d'un droit de brevet ou d'un autre droit de propriété intellectuelle.

From: Chantal Lavoie [<mailto:clavoie@dartaero.com>]
Sent: Thursday, October 4, 2018 11:27 AM
To: Olga Kuchyna <okuchyna@polymershapes.com>
Subject: RE: quote

Hi Olga,
Please see the mat'l spec's sheet.
Thanks
Chantal

From: Olga Kuchyna <okuchyna@polymershapes.com>
Sent: Thursday, October 04, 2018 11:22 AM
To: Chantal Lavoie <clavoie@dartaero.com>
Subject: RE: quote

Hi Chantal,

Is there a tolerance ?

Thank you,
Olga Kuchyna
Représentante Ventes Internes / Service à la Clientèle

Polymershapes Distribution Canada Inc.
1665 55ième Avenue
Dorval, QC, H9P 2W3

T: 514-422-1048
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From: Chantal Lavoie [<mailto:clavoie@dartaero.com>]
Sent: Thursday, October 4, 2018 11:22 AM
To: Olga Kuchyna <okuchyna@polymershapes.com>
Subject: quote

Good morning Olga,
Please advise price and delivery on mat'l.

Uhmw color black sheet 1.250" x 2 sheet

Thanks
Chantal

Chantal Lavoie
Purchasing Coordinator

DART AEROSPACE
T 1 613 632-5200
F 1 613 632-1053
E clavoie@dartaero.com
1 800 556- 4166
www.dartaerospace.com



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Expéditeur à:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON, K6A 1K7
CANADA
téléphone - 1 (613) 6325200

Facturer à:
DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY, ON, K6A 1K7
Canada

BORDEREAU D'EXPÉDITION

DATE:
06-NOV-2018

COMMANDE:
93038463

MODALITÉS DE PAIEMENT:
CA NET 30
F.A.B.

BON DE COMMANDE:

ENTREPÔT POLYMERSHAPES - MONTREAL QC
Dorval, QC, H9P 2W3, CA.,

TÉL. DE LA PERSONNE-RESSOURCE:
0014005000120

BON DE COMMANDE:
PO041287

MODALITÉS DE TRANSPORT:
Collect Freight REPRESENTANT:
MONTREAL HOUSE

DATE DE LA
COMMANDE:
10-OCT-18

NOM POUR LIVRAISON:
48816189

N° DE CONNAISSANCE JOURNEY

| TRANSPORTEUR DE MARCHANDISES: CUSTOMER CHOICE - REVIEW NOTES | | COMMENTAIRE SUR FRAIS DE TRANSPORT: | | | |
|---|--|-------------------------------------|------------------|-----------------|---------------------|
| CATÉGORIE | NUMERO DE PIÈCE / DESCRIPTION DE L'ARTICLE | DATE D'EXPÉDITION | QTE COMMANDÉE | QTE EXPÉDIÉE | QTE NON EXPÉDIÉE |

1 52466104
UHMW SH 1.250 48X120 BK | TIVAR 1000
INSTRUCTIONS SPÉCIALES: PLANED 2 SIDES + 020/-0
Numéros de LOT:
(2 Qté)

UDM
0 SH

REÇU EN BON ÉTAT

Signé:

Date:


À moins qu'il en soit convenu autrement dans un document signé par les deux parties, toute vente par Polymershapes est effectuée exclusivement aux termes des conditions de vente standard de Polymershapes, qui peuvent être obtenues sur demande et en ligne à l'adresse www.polymershapes.com. BIEN QUE LES RENSEIGNEMENTS, LES RECOMMANDATIONS OU LES CONSEILS FIGURANT AUX PRÉSENTES SOIENT DONNÉS DE BONNE FOI, POLYMERSHAPES NE DONNE AUCUNE GARANTIE, EXPRESSE OU IMPLICITE, QUANT AUX RÉSULTATS, À L'EFFICACITÉ OU À LA SÉCURITÉ DE TOUTE CONCEPTION CONTENANT DES PRODUITS, MATÉRIAUX, SERVICES, RECOMMANDATIONS OU CONSEILS DE POLYMERSHAPES. SAUF TEL QU'IL EST INDIQUÉ DANS LES CONDITIONS DE VENTE STANDARD DE POLYMERSHAPES, POLYMERSHAPES ET SES REPRÉSENTANTS NE SONT EN AUCUN CAS RESPONSABLES DE TOUTE PERTE DÉCOULANT DE L'UTILISATION DE SES MATÉRIAUX, PRODUITS OU SERVICES DÉCRITS AUX PRÉSENTES

Chaque utilisateur assume l'entière responsabilité de ses décisions quant au caractère convenable des produits, des matériaux, des services, des recommandations ou des conseils pour sa propre utilisation. Chaque utilisateur doit identifier et effectuer tous les tests et analyses nécessaires pour s'assurer que ses pièces finies contenant des produits, matériaux ou services achetés de Polymershapes seront sûres et pourront être utilisées dans des conditions d'utilisation finales. Aucune disposition du présent document ou de tout autre document, ni aucune recommandation ou aucun conseil verbal, ne sera réputé modifier, faire varier, remplacer ou annuler toute disposition des conditions de vente de Polymershapes ou de la présente exclusion de responsabilité, à moins que cette modification ne soit précisément acceptée dans un écrit signé par Polymershapes. Aucun énoncé figurant aux présentes relativement à l'utilisation éventuelle ou suggérée de tout matériau, produit, service ou conception n'a pour but d'accorder, ni ne doit être interprété comme accordant, une licence sur les droits de brevet ou d'autres droits de propriété intellectuelle de Polymershapes ou de l'une de ses filiales ou d'un membre de son groupe couvrant cette utilisation ou cette conception, et ne doit pas être interprété comme une recommandation relative à l'utilisation de ce matériau, produit, service ou concept en violation d'un droit de brevet ou d'un autre droit de propriété intellectuelle.

Rapport de fin de

SHIPPER-PROVIDED SHORT-FORM

BILL OF LADING - NOT NEGOTIABLE

| | | | | | |
|---------|--|---------------------|-----------------------------------|--------|---|
| SHIPPER | POLYMERSHAPES - MONTREAL QC 1665 - 55TH AVENUE Dorval, QC H9P 2W3 CA | SALES ORDER | DATE SHIPPED | PAGE | BILL OF LADING NO. UCMONT0048816189 |
| | | 93038463 | 06-NOV-18 | 1 of 1 | |
| | | SCAC | CARRIER NAME | | |
| SHIP TO | DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON, K6A 1K7, CA | XXRN | CUSTOMER CHOICE - REVIEW NOTES | |  Polymershapes POLYMERSHAPES DISTRIBUTION CANADA INC. www.polymershapes.com |
| | | PRO NO./WAYBILL NO. | | | |
| | | JOURNEY | | | |
| | | FREIGHT TERMS | | | |
| | | Collect Freight | | | |
| | | 93038640 | | | |

All parties hereto and their assigns are familiar with, and agree that this bill of lading is subject to the individually determined rates or contracts agreed upon in writing between the carrier and shipper, if applicable, otherwise the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, which are in effect on the date of shipment. Please note that FOB is Shipping Point. Received, subject to the classifications and tariffs in effect on the date of issue of this Original Bill of Lading, goods described below, in apparent good order, except as noted (contents and conditions of contents of packages unknown), marked, consigned and destined as indicated below, which said Company agrees to carry to its usual place of delivery at said destination, if on its road, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said goods over all or any portion of said route to destination, and as to each party at any time interested in all or any of said goods, that every service to be performed hereunder shall be subject to all the terms and conditions (which are hereby incorporated by reference and have the same force and effect as if the same were severally, fully and specifically set forth herein): 1. of the bill of lading set forth in or prescribed by the relevant tariffs, classifications, statutes and regulations pertaining to motor carrier's services when said goods are carried by a motor carrier; or 2. of the bill of lading form prescribed by O.C. 986-79, April 4, 1979, when the said goods originated in Quebec are to be carried by a motor carrier.

| HM | PALLET DETAILS | DESCRIPTION OF ARTICLES, SPECIAL MARKINGS & EXCEPTIONS | WEIGHT |
|----|--|---|--------|
| | 1 Skid 121x49x8 1 Box 100x8x8 | CLASS 55 Plastic Film or Sheet, NOI, not further processed than cut to size; in tubular form collapsed upon itself; other than (folded) upon itself in lengths of not L/T 100' rolled to a diameter not L/T 3"; or (folded) upon itself. <div style="text-align: right; font-size: 1.5em;">219 + Z</div> UHmw SH 1.250 48x120 Bk Tivan (2) act RD 1.00 Bk acetron (8ft) act RD 1.25 Bk acetron (16ft) act RD 1.500 Bk acetron (8ft) | |


| | | | | |
|------------|--|--|-----------|---------------------|
| TOTAL PKGS | | PALLET WEIGHT: | | 100 |
| BILL TO | | If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statement. The carrier shall not make a delivery of the shipment without payment of freight charges and any other lawful charges. | | GROSS WEIGHT 600 |
| 2 | DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 CA | | | |
| | | Per | Consignor | |

When the rate is dependent on value, shipper is required to state specifically in writing the agreed or declared value for the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ cents per pound for each article.

NOTE: Liability Limitations for loss or damage in this shipment may be applicable.

This is to certify that the above named materials are, to the best of Shipper's knowledge, properly classified, described, packaged marked and labeled and are in proper condition for transportation according to the applicable regulation of the Ministry of Transportation.

| | | | |
|---|-------------------------------------|-------------------------------------|----------------------------------|
| SHIPPER SIGNATURE/DATE | TRAILER LOAD | FREIGHT COUNTED | CARRIER SIGNATURE/PICKUP DATE |
| SIGNATURE  | <input type="checkbox"/> By Shipper | <input type="checkbox"/> By Shipper | SIGNATURE <u>Satish</u> (1 Skid) |
| DATE <u>06/11/18</u> | <input type="checkbox"/> By Driver | <input type="checkbox"/> By Driver | DATE <u>Nov 6, 2018</u> |
| Property described above is received in good order, except as noted | | | |

FOR HAZARDOUS MATERIALS EMERGENCY CALL CHEMTRAC 1-800-262-8200



M1557271
RTAL - Rosedale Transport Limited

Certificate of Conformance

1665 55th Avenue
Dorval, Quebec,
H9P 2W3

Date: November 5/2018

Attn: RECEIVING DEPARTMENT

To: DART AEROSPACE LTD.

Address: 1270 ABERDEEN STREET
HAWKESBURY, ON.

Customer P.O. Number: PO041287

Sales Order No: 93038463

Manufacturer's Reference: 0002376264

Our Reference: MTL-107721

It is hereby certified that, to the best of Polymershapes Distribution Canada knowledge, the product information provided below conforms to the corresponding information in the possession of Polymershapes Distribution Canada with respect to such products. This certification and the sale of products are, unless otherwise agreed to in writing, subject to Polymershapes Distribution Canada standard conditions of sale. This document shall not be reproduced, except in full, without prior written approval.

| Quantity | Description | Lot Number/Spec. |
|----------|---|------------------|
| 2 SHTS | UHMW SH 1.250 48X120 BK TIVAR 1000 PLANED 2 SIDES +.020/-0 | 0010054240 |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Polymershapes Canada Distribution Inc.

By:

Title:

Quality Coordinator



Quadrant EPP USA, Inc.
2120 Fairmont Avenue, P.O. Box 14235
Reading, PA 19612-4235
Phone 610-320-6600

Ship to:

Polymershapes - Dorval
1665 - 55th Avenue

Dorval, QUE H9P 2W3
Canada

Consignee: 0002000430

Sold to:

Polymershapes - Dorval
1665, 55 Avenue

Dorval, QUE H9P 2W3
Canada

Delivery address: 1A
Delivery No: 10187373

Declaration of compliance with the order according EN 10204 - 2.1

TIVAR 1000 PLATE BLACK

1.25 x 48 x 120 IN

PLANED 2 SIDES, +.020/-0

Item No: 03010110693

Lot: 0010054240

Ship date: 11/02/18

Original Production Lot: 0010002944

Date of MFG: 10/25/18

Qty: 2.00 PC

Supplied against purchase order number: MTL-107721

Quadrant Order No: 0002376264

Product is known as **ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE** with a pigment additive.

Base resin meets ASTM D4020 with a molecular weight of 3.0 to 6.2 million G/Mol.

For specific details related to regulatory compliance, see Quadrants Regulatory Letter for this material, which is available upon request.

We hereby certify that the goods described above comply with the terms of the order contract and conform to our Product Specifications. The Quality Management System of the Quadrant EPP plants in Reading, PA, Scranton, PA, Wytheville, VA, Delmont, PA and Ft. Wayne, IN are certified according to ISO 9001. The ISO Certificate is available upon request.

CERTIFIED BY: Eric Weir
FUNCTION: Product Specification & Certification Engineer
E-MAIL: eric.weir@qplas.com
DATE: 11/02/18
DIGITAL SIGNATURE 

PURCHASE MATERIAL: UHMW BLACK TIVAR 1000 VIRGIN MATERIAL
MANUFACTURER: POLY HI-SOLDURQUADRANT PLASTICS
THICKNESS - TOLERANCE: +0.030" NO MINUS

PART NUMBER: MUHMW C | TTT | WHERE TTT = THICKNESS IN 1/100 INCHES
THICK | C = COLOUR (B = BLACK)
(W = WHITE)

EG. 1.000" UHMW BLACK TIVAR 1000 = MUHMWB100
1.250" UHMW BLACK TIVAR 1000 = MUHMWB125

MINIMUM MATERIAL PROPERTY VALUES
REFERENCE DART REPORT DR-1041

YIELD TENSILE 2900 PSI
ULTIMATE TENSILE 4600 PSI
YIELD SHEAR 2200 PSI
ULTIMATE SHEAR 3500 PSI
YIELD BEARING 2800 PSI
ULTIMATE BEARING 4200 PSI
FLEXURAL MODULUS 105000 PSI

RELEASED
R 12/10/20 42
EON 12-672

| | | | |
|--|---|-----|----------|
| C | INCREASED ACCURACY OF PART NUMBER THICKNESS. "TTT" WAS "TT" | AP | 12.09.27 |
| B | REFORMAT ADDED MATERIAL REQUIREMENTS FROM D22#9 MANUFACTURER UPDATED (SEE PAR 11-105) | AJS | 11.06.09 |
| A | NEW ISSUE | RF | 05.03.31 |
| REV | DESCRIPTION | BY | DATE |
| DESIGN | RF | | |
| DRAWN | AP | | |
| CHECKED | 42 | | |
| MFG. APPR. | N/A | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 12.09.27 | | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | |
| DRAWING NO. MUHMW | | | |
| SHEET 1 OF 1 | | | |
| REV. C | | | |
| TITLE | | | |
| UHMW SHEET | | | |
| SCALE | | | |
| NONE | | | |
| COPYRIGHT © 2009 BY DART AEROSPACE LTD | | | |
| THIS DOCUMENT IS UNCLASSIFIED AND IS NOT TO BE RELEASED TO THE PUBLIC WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD | | | |

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MUHMWB 1.250
 DATE: 18/11/09

PO / BATCH NO.: P0041287/S125470

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 80sf
 QUANTITY INSPECTED: 80sf
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: 10'x4'
 SHEET SIZE RECEIVED: 10'x4'

| DESCRIPTION | NCR (Check Y/N) | | COMMENTS |
|---|--------------------|-----|----------|
| SURFACE DAMAGE | Y | (N) | |
| CORRECT FINISH | (Y) | N | |
| CORROSION | Y | (N) | |
| CORRECT GRAIN DIRECTION | (Y) | N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) | N | UHMLW |
| CORRECT THICKNESS | (Y) | N | |
| PHOTO REQUIRED | Y | (N) | |
| CORRECT REF # TO LINK CERT | (Y) | N | P0041287 |
| CORRECT MATERIAL IDENTIFICATION | (Y) | N | |
| CORRECT M# ON THE MATERIAL | (Y) | N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y | (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y | (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL | | | | | |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | ENGINEERING SIGNOFF (if required) |
|--|-------------------------------------|
| INSPECTED BY: <u>AI</u> DATE: <u>18/11/09</u> | SIGNED OFF BY: _____ DATE: _____ |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in